#2 OIPE

RAW SEQUENCE LISTING DATE: 12/03/2001
PATENT APPLICATION: US/09/992,901 TIME: 14:45:50

Input Set : A:\SALKINS024DV1.TXT
Output Set: N:\CRF3\11212001\I992901.raw

ENTERED

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      4 <110> APPLICANT: Neff, Michael M.
      5       Chory, Joanne
      7 <120> TITLE OF INVENTION: GENETICALLY MODIFIED PLANTS HAVING
      8       MODULATED BRASSINOSTEROID SIGNALING
     11 <130> FILE REFERENCE: SALKINS.024DV1
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/992,901
C--> 13 <141> CURRENT FILING DATE: 2001-11-14
     13 <150> PRIOR APPLICATION NUMBER: US 09/527,073
     14 <151> PRIOR FILING DATE: 2000-03-16
     16 <150> PRIOR APPLICATION NUMBER: US 60/124570
     17 <151> PRIOR FILING DATE: 1999-03-16
     19 <150> PRIOR APPLICATION NUMBER: US 60/170,931
     20 <151> PRIOR FILING DATE: 1999-12-14
     22 <150> PRIOR APPLICATION NUMBER: US 60/172,832
     23 <151> PRIOR FILING DATE: 1999-12-20
     25 <160> NUMBER OF SEQ ID NOS: 16
     27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     29 <210> SEQ ID NO: 1
     30 <211> LENGTH: 1563
     31 <212> TYPE: DNA
     32 <213> ORGANISM: Arabidopsis thaliana
     34 <220> FEATURE:
     35 <223> OTHER INFORMATION: Oligonucleotide
     37 <400> SEQUENCE: 1
     38 atggaggaag aaagtagcag ctggttcatt ccaaaggttc ttgttctgtc tgtaatctta 60
     39 agtcttgtaa tagtgaaggg tatgtctctg ttatggtgga gaccaagaaa gattgaagaa 120
     40 catttctcta aacaaggaat tcgaggtcct ccttatcatt tcttcatcgg aaatgttaaa 180
     41 gaacttgttg gaatgatgct taaagcttct tctcatccta tgcctttctc tcacaatatt 240
     42 cttcctagag ttctctcttt ttaccatcac tggagaaaaa tctacggtgc tacatttctg 300
     43 gtttggttcg gtccaacttt ccggttaacg gtagccgatc ctgatttgat cagagagatc 360
     44 ttctctaagt ctgagttcta cgagaagaat gaagctcacc ctttggttaa acaacttgaa 420
     45 ggcgatggac tacttagtct caaaggtgaa aaatgggctc atcatcgaaa aatcattagc 480
     46 cctacttttc atatggagaa tcttaagttg cttgtaccag ttgtgttgaa gagtgtgact 540
     47 gatatggtgg ataaatggtc cgataagtta tcagaaaacg gtgaagttga ggtagatgtc 600
     48 tatgagtggt ttcagatttt gactgaagat gttattagta gaacagcttt tggaagtagc 660
     49 tatgaagatg gtcgagcagt ttttcgactt caagctcaac aaatgcttct ttgtgctgaa 720
     50 gcttttcaaa aagtcttcat tcctggctat agatttttc cgacaagagg gaatttgaag 780
     51 tctcggaagt tagacaagga gataaggaag tcgttgttga agctgataga gcggcggaga 840
     52 caaaacgcta tagatggaga aggggaagaa tgtaaggagc cggcggcgaa ggatttgttg 900
     53 ggattaatga ttcaggcaaa gaatgtgacg gttcaggaca ttgtggagga gtgtaaaagc 960
     54 tttttcttcg ccgggaaaca gacaacttct aatctgctga cgtggacgac catcttgcta 1020
     55 tccatgcacc cggagtggca ggccaaagca cgtgatgagg tcctcagggt ctgcggctca 1080
     56 cgtgatgtcc ctaccaagga ccatgtcgtt aagcttaaaa cgttgagtat gatcttgaac 1140
     57 gagtctttaa ggttgtatcc accaatagta gctacgattc gacgcgctaa atcggatgtg 1200
     58 aagctaggag ggtacaaaat cccatgtggc acggagcttc taatcccaat catagcggtc 1260
     59 catcatgacc aagccatttg gggtaatgac gtgaacgaat tcaatccagc tcggtttgcg 1320
     60 gatggagtgc cgcgtgctgc caaacacccc gttggcttca taccgtttgg cctcggagtt 1380
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61 cgtacatgca ttggtcagaa tcttgctata cttcaggcca aattgacact cgctgtaatg 1440
62 atccaacgct tcacctttca cttggctcct acttatcagc atgcacctac cgtccttatg 1500
63 ttgctttatc ctcaacatgg tgcaccaatc accttccgga gattgaccaa tcatgaggat 1560
64 tga                                                               1563
66 <210> SEQ ID NO: 2
67 <211> LENGTH: 520
68 <212> TYPE: PRT
69 <213> ORGANISM: Arabidopsis thaliana
71 <400> SEQUENCE: 2
72 Met Glu Glu Glu Ser Ser Ser Trp Phe Ile Pro Lys Val Leu Val Leu
73  1               5                  10                  15
74 Ser Val Ile Leu Ser Leu Val Ile Val Lys Gly Met Ser Leu Leu Trp
75             20                  25                  30
76 Trp Arg Pro Arg Lys Ile Glu Glu His Phe Ser Lys Gln Gly Ile Arg
77         35                  40                  45
78 Gly Pro Pro Tyr His Phe Phe Ile Gly Asn Val Lys Glu Leu Val Gly
79     50                  55                  60
80 Met Met Leu Lys Ala Ser Ser His Pro Met Pro Phe Ser His Asn Ile
81 65                  70                  75                  80
82 Leu Pro Arg Val Leu Ser Phe Tyr His His Trp Arg Lys Ile Tyr Gly
83                 85                  90                  95
84 Ala Thr Phe Leu Val Trp Phe Gly Pro Thr Phe Arg Leu Thr Val Ala
85             100                 105                 110
86 Asp Pro Asp Leu Ile Arg Glu Ile Phe Ser Lys Ser Glu Phe Tyr Glu
87         115                 120                 125
88 Lys Asn Glu Ala His Pro Leu Val Lys Gln Leu Glu Gly Asp Gly Leu
89     130                 135                 140
90 Leu Ser Leu Lys Gly Glu Lys Trp Ala His His Arg Lys Ile Ile Ser
91 145                 150                 155                 160
92 Pro Thr Phe His Met Glu Asn Leu Lys Leu Leu Val Pro Val Val Leu
93                 165                 170                 175
94 Lys Ser Val Thr Asp Met Val Asp Lys Trp Ser Asp Lys Leu Ser Glu
95             180                 185                 190
96 Asn Gly Glu Val Glu Val Asp Val Tyr Glu Trp Phe Gln Ile Leu Thr
97         195                 200                 205
98 Glu Asp Val Ile Ser Arg Thr Ala Phe Gly Ser Ser Tyr Glu Asp Gly
99     210                 215                 220
100 Arg Ala Val Phe Arg Leu Gln Ala Gln Gln Met Leu Leu Cys Ala Glu
101 225                 230                 235                 240
102 Ala Phe Gln Lys Val Phe Ile Pro Gly Tyr Arg Phe Phe Pro Thr Arg
103                245                 250                 255
104 Gly Asn Leu Lys Ser Arg Lys Leu Asp Lys Glu Ile Arg Lys Ser Leu
105            260                 265                 270
106 Leu Lys Leu Ile Glu Arg Arg Arg Gln Asn Ala Ile Asp Gly Glu Gly
107        275                 280                 285
108 Glu Glu Cys Lys Glu Pro Ala Ala Lys Asp Leu Leu Gly Leu Met Ile
109    290                 295                 300
110 Gln Ala Lys Asn Val Thr Val Gln Asp Ile Val Glu Glu Cys Lys Ser
111 305                 310                 315                 320
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```
112 Phe Phe Phe Ala Gly Lys Gln Thr Thr Ser Asn Leu Leu Thr Trp Thr
113                 325                 330                 335
114 Thr Ile Leu Leu Ser Met His Pro Glu Trp Gln Ala Lys Ala Arg Asp
115             340                 345                 350
116 Glu Val Leu Arg Val Cys Gly Ser Arg Asp Val Pro Thr Lys Asp His
117         355                 360                 365
118 Val Val Lys Leu Lys Thr Leu Ser Met Ile Leu Asn Glu Ser Leu Arg
119     370                 375                 380
120 Leu Tyr Pro Pro Ile Val Ala Thr Ile Arg Arg Ala Lys Ser Asp Val
121 385                 390                 395                 400
122 Lys Leu Gly Gly Tyr Lys Ile Pro Cys Gly Thr Glu Leu Leu Ile Pro
123                 405                 410                 415
124 Ile Ile Ala Val His His Asp Gln Ala Ile Trp Gly Asn Asp Val Asn
125             420                 425                 430
126 Glu Phe Asn Pro Ala Arg Phe Ala Asp Gly Val Pro Arg Ala Ala Lys
127         435                 440                 445
128 His Pro Val Gly Phe Ile Pro Phe Gly Leu Gly Val Arg Thr Cys Ile
129     450                 455                 460
130 Gly Gln Asn Leu Ala Ile Leu Gln Ala Lys Leu Thr Leu Ala Val Met
131 465                 470                 475                 480
132 Ile Gln Arg Phe Thr Phe His Leu Ala Pro Thr Tyr Gln His Ala Pro
133                 485                 490                 495
134 Thr Val Leu Met Leu Leu Tyr Pro Gln His Gly Ala Pro Ile Thr Phe
135             500                 505                 510
136 Arg Arg Leu Thr Asn His Glu Asp
137         515                 520
140 <210> SEQ ID NO: 3
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Primer
145 <400> SEQUENCE: 3
W--> 146  000
148 <210> SEQ ID NO: 4
149 <211> LENGTH: 20
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Oligonucleotide primer
156 <400> SEQUENCE: 4
157 ctgtcgtgga aagtgtgagg                                              20
159 <210> SEQ ID NO: 5
160 <211> LENGTH: 18
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Oligonucleotide primer
167 <400> SEQUENCE: 5
168 gaaccttgac gcttgagg                                               18
170 <210> SEQ ID NO: 6
171 <211> LENGTH: 19
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Input Set : A:\SALKINS024DV1.TXT
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172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Oligonucleotide primer
178 <400> SEQUENCE: 6
179 gctctctcga ggtcgacgg 19
181 <210> SEQ ID NO: 7
182 <211> LENGTH: 20
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Oligonucleotide primer
189 <400> SEQUENCE: 7
190 gcttgctgga ctatttgagc 20
192 <210> SEQ ID NO: 8
193 <211> LENGTH: 20
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Oligonucleotide primer
200 <400> SEQUENCE: 8
201 ggttcaggac attgtggagg 20
203 <210> SEQ ID NO: 9
204 <211> LENGTH: 21
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Oligonucleotide primer
211 <400> SEQUENCE: 9
212 ggatacaacc ttaaagactc g 21
214 <210> SEQ ID NO: 10
215 <211> LENGTH: 20
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Oligonucleotide primer
222 <400> SEQUENCE: 10
223 gcaactcggt aacgacaggc 20
225 <210> SEQ ID NO: 11
226 <211> LENGTH: 21
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Oligonucleotide primer
233 <400> SEQUENCE: 11
234 tcaagtagca aaatcacggc g 21
236 <210> SEQ ID NO: 12
237 <211> LENGTH: 22
238 <212> TYPE: DNA

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Input Set : A:\SALKINS024DV1.TXT
Output Set: N:\CRF3\11212001\I992901.raw

239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Oligonucleotide primer
244 <400> SEQUENCE: 12
245 ctctttaatc cttggagatg gc 22
247 <210> SEQ ID NO: 13
248 <211> LENGTH: 25
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Oligonucleotide primer
255 <400> SEQUENCE: 13
256 ggttgatcat cttctgctaa ttccc 25
258 <210> SEQ ID NO: 14
259 <211> LENGTH: 31
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Oligonucleotide primer
266 <400> SEQUENCE: 14
267 gatctttgcc ggaaaacaat tggaggatgg t 31
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 32
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Oligonucleotide primer
277 <400> SEQUENCE: 15
278 cgacttgtca ttagaaagaa agagataaca gg 32
280 <210> SEQ ID NO: 16
281 <211> LENGTH: 588
282 <212> TYPE: DNA
283 <213> ORGANISM: Arabidopsis thaliana
285 <220> FEATURE:
286 <221> NAME/KEY: misc_feature
287 <222> LOCATION: (1)...(588)
288 <223> OTHER INFORMATION: n = A,T,C or G
290 <400> SEQUENCE: 16
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292 cgttgtgata tacatggcgg cccctacgcc gttggccttc ctctctctct ctttctctat 120
293 atctctttct tgatctctct ctataaaagc tcaaatagcc cagcaagcaa aataatccaa 180
294 aaagaaacca agataagaag aaacaaactc gcaaagaaac aaaaaggaaa aaaaaaaaaa 240
295 aaacgaatta aaaaaagaag aaataaatcc tccttttaa cacctcattc cctctttctc 300
296 cggcactcaa aagagaccaa agaagaaaac tttagctctc ctttttgtgt tttctctctt 360
297 ttctttgttg gtgttccgac aatggaggaa gaaagtagca gctggttcat tccaaaggtt 420
298 cttgttctgt ctgtaatctt aagtccttgt aatagtgaag ggtatgtctc tgttatggtg 480
299 gagaccaaga aagattgaag aacatttctc taaacaagga attcgaggtc ctccttatca 540
300 tttcttcatc ggaaatgtta aagaacttgt tgaatgatgc ttaaagct 588

**VERIFICATION SUMMARY** DATE: 12/03/2001
PATENT APPLICATION: **US/09/992,901** TIME: 14:45:51

Input Set : **A:\SALKINS024DV1.TXT**
Output Set: **N:\CRF3\11212001\I992901.raw**

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:146 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (3) SEQUENCE:
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16